

FINAL REPORT: SOUTHEASTERN ALASKA
INTERJURISDICTIONAL GROUND FISH RESEARCH



By

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1. Final Report: Southeastern Alaska Interjurisdictional Groundfish Research

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2. Abstract

- A. This report summarizes the fieldwork, accomplishments, and findings of the 1999 NOAA Grant NA76FI0210 for research, monitoring, and management of commercial groundfish fisheries in the Southeast region of the State of Alaska from July 1, 1999 through June 30, 2000. The report also provides an update of fishery monitoring activities for the period April 1 to June 30, 2000 not covered in the semi-annual report prepared in July, 2000.

3. Purpose

- A. The purpose of the contract is to improve groundfish management through improving on-going fisheries monitoring programs. This project is the core portion of the Southeast Region Groundfish Project and is critical for successful research and management of groundfish fisheries. Funding of this project allows inseason management of interjurisdictional and state managed fisheries in Southeast Alaska through salary money for the Project Leader and Assistant Project Leader.

- B. The objectives of the project include:

- Objective 1) Determine domestic groundfish landings in the state-managed fisheries in the Eastern Gulf of Alaska by species, management area, and month.

Progress: During the final reporting period (March-June 2000) approximately 490 mt, round weight, of groundfish were landed in state-managed fisheries in Southeastern Alaska. Total documented landings for the reporting year are given in Table 1.

All active state-managed groundfish fisheries in Southeast are managed on a calendar year basis and therefore the documentation of catches in this report does not correspond to fishery management objectives. Appendix I details the historic harvest data by fishery on a calendar year basis.

The total harvest during the full reporting period was 2,816 mt and was dominated by sablefish (1,602 mt) which accounted for most of the total harvests, followed by rockfishes, of which more than half is DSR (379 mt). These harvests are reduced from the 3,925 mt taken during the 98/99 reporting period primarily due to a significant reduction (<35%) in the Northern Southeast Inside (NSEI) sablefish fishery quota as well as a reduction in the DSR and lingcod directed fishery quotas. Management Areas are shown in Figure 1.

Ninety three percent of the total harvest was taken by longline gear, with just under 4% (predominately lingcod) taken on dinglebar troll gear. The remaining 3% is taken by pot and jig gears (Table 2). Black rockfish is taken primarily on jig gear (93%) with some longline bycatch.

Table 3 lists harvest taken by fishery by management area. NSEI has the largest volume of harvest due to the Chatham sablefish fishery and associated bycatch. The Demersal Shelf Rockfish (DSR) fishery occurs primarily in outside waters with Central Southeast Outside (CSEO) accounting for the most directed fishery harvest and the East Yakutat subdistrict (EYKT) accounting for the most harvest in the directed lingcod fishery.

Species composition varies by target fishery (Table 4). The DSR fishery lands predominately yelloweye rockfish (78%, 214 mt) followed by 11% lingcod and 4% quillback rockfish. Statistics for the halibut fishery detail only bycatch species, not halibut. Yelloweye rockfish is the predominate bycatch species in the halibut fishery, accounting for 54% of the landed bycatch and 122 mt, one third of the total yelloweye landed in all fisheries. Lingcod (18%) and Pacific cod (11%) are also commonly landed bycatch in the halibut fishery. The table for bycatch in the sablefish fishery requires explanation. Although sablefish comprises 95% of the total landings on sablefish permits, the miscellaneous finfish fishery is open concurrently with sablefish and many fishermen land their bycatch taken in the sablefish fishery on a miscellaneous finfish target permit. Miscellaneous finfish landings are dominated by Pacific cod (55%), thornyhead rockfish (14%), shortraker rockfish (11%), rougheye rockfish (8%), and black rockfish (5%).

Changes: None.

- Objective 2) Oversee collection of biological data on key species including length, weight, sex, and maturity, and collect body parts or tissues as needed for age determination and genetics work. Data to be collected from the commercial fisheries and from resource assessment surveys.

Progress: Task accomplished. Documentation of port sampling goals and objectives by species and fishery has been finalized.

The commercial catch was sampled to obtain biological data from commercially important species, with an emphasis on yelloweye, quillback, lingcod, and black rockfish. A total of 4,586 fish (8 species) were sampled for length, weight, sex, maturity, and otoliths (Table 5).

Changes: None.

- Objective 3) Continue the longline, dinglebar troll, and trawl logbook programs and update and improve methods of data entry and analysis.

Progress: These programs were continued and new data entry formats introduced. A total of 3,992 fish tickets were entered and 640 logbooks were entered.

Changes: None.

- Objective 4) Conduct resource assessment surveys for sablefish, rockfish, and lingcod in the Southeastern and East Yakutat areas as funding levels allow.

Progress:

Grant NA76FI0210 does not provide funding for stock assessment surveys beyond salary money for the Project leader and Assistant Project Leader.

1. Planned and conducted 2000 SSEI sablefish assessment survey.
2. Planned and conducted 2000 DSR longline survey (grant NA77FM0209).
3. Planned and conducted 2000 Black rockfish survey (grant NA96FN0195).
4. Planned and conducted 2000 Lingcod survey (grant NA96FN0195).
5. Planned July 2000 sablefish pot survey for NSEI tagging study.

Details of these surveys are reported in the appropriate grant reports. A total of 11,409 groundfish were sampled from surveys during the reporting period. Of these, 4,403 sablefish were tagged and released and 835 were sampled; 3,376 black rockfish were tagged and released and 225 sampled; 1,543 lingcod were tagged and released and 132 sampled; 41 yelloweye were tagged and released and 112 sampled. Length, sex, and maturity data were also taken on 1,084 thornyhead rockfish, 220 shortraker rockfish, 229 rougheye rockfish, and 153 redbanded rockfish.

Changes: None.

- Objective 5) Implement closures for fisheries in state waters and for state-managed fisheries in federal waters as needed for resource conservation or when annual harvest objectives have been reached. Prepare for the Alaska Board of Fisheries (BOF) meeting regarding Southeast groundfish regulations.

Progress: The Southeast Alaska groundfish management staff prepared extensively for the Alaska Board of Fisheries Meeting, which was held in Juneau in January, in Sitka in February, and in Anchorage in March. Both the public and the department made proposals for regulatory changes. Several significant groundfish proposals were adopted, including a determination of allocations between user groups of lingcod harvesters, and a requirement for full retention of rockfish bycatch. A news release detailing the changes to groundfish regulations is appended to this document (Appendix II).

Management action was taken in the lingcod and the sablefish fisheries during the last three months of the contract period with the issuance of emergency orders (EO) and news releases. Three EOs and 10 News Releases were written for inseason management action in the Southeast Groundfish Fisheries. A total of 12 EOs were written between July 1999 and June 2000. Current year news releases are posted on the ADF&G website: http://www.cf.adfg.state.ak.us/geninfo/news/news_rel.htm.

Changes: None.

Table 1. Groundfish landed in state-managed fisheries in Southeastern Alaska, July 1999 – June 2000. Values are round weight in metric tons.

1999/2000	DSR	Other Rockfish	Lingcod	Pacific Cod	Sablefish	Black Rockfish	Total
July	15	6	9	5	20	6	61
August	15	4	12	4	13	7	55
September	16	109	9	10	870	1	1015
October	6	71	1	10	425	0	513
November	43	15	7	29	116	1	211
December	32	3	4	41	0	0	80
January	130	2	14	21	0	3	170
February	31	7	6	104	0	1	149
March	8	17	3	52	0	3	83
April	24	13	15	16	0	2	70
May	37	21	86	9	0	0	153
June	22	33	30	8	158	5	256
Total	379	298	198	309	1602	27	2816

Table 2. State-managed groundfish fisheries in Southeast, June 1999 - July 2000 Percent of assemblage harvest by gear type.

Assemblage	Dinglebar	Hand Troll	Jigs	Longline	Pot Gear
black rockfish	1.26	23.25	59.22	16.26	0.00
DSR	0.37	0.15	0.73	98.76	0.00
flatfish	0.00	0.00	0.00	100.00	0.00
lingcod	53.40	0.08	9.20	37.31	0.00
other	0.00	0.00	0.00	100.00	0.00
other rockfish	0.00	0.00	0.08	99.92	0.00
pcod	0.00	0.00	0.34	99.66	0.00
pelagic rockfish	0.00	0.00	0.05	99.95	0.00
pollock	0.00	0.00	0.00	100.00	0.00
sablefish	0.00	0.00	0.00	97.28	2.72
shark	0.00	0.00	0.00	100.00	0.00
skate	0.00	0.00	0.00	100.00	0.00

Table 3. State-managed groundfish fishery landings (round weight in metric tons) by fishery and management area, July 1999- June 2000, Southeast Alaska.

Fishery	CSEO	EYAK	NSEI	NSEO	SSEI	SSEO	Total
DSR	122.60	74.74	16.39	0.01	19.85	45.66	279.26
Halibut	54.79	42.06	64.60	25.79	18.78	20.44	226.47
Lingcod	21.72	70.33	0.11	15.47	0.36	17.84	125.82
Misc. Finfish	17.09	0.43	430.79	8.55	42.80	0.04	499.70
Sablefish	1.36	0.98	1457.27	1.77	227.37	0.55	1689.29
Grand Total	217.55	188.55	1969.16	51.60	309.16	84.53	2820.55

Halibut fishery landed bycatch only-halibut not reported.

Table 4. Harvest by species and fishery for state-managed fisheries, Southeast Region, July 1999 - June 2000. Values are round weights in metric tons.

Species	DSR	Halibut	Lingcod	Misc. Finfish	Sablefish	Grand Total
Arrowtooth flounder	0.00	0.00	0.00	0.25	0.00	0.25
Black rockfish	2.41	0.26	0.48	24.03	0.03	27.20
Bocaccio rockfish	0.00	0.04	0.00	0.00	0.00	0.04
Canary rockfish	5.74	0.46	0.01	0.01	0.01	6.23
China rockfish	0.07	0.05	0.00	0.05	0.00	0.17
Copper rockfish	0.01	0.07	0.00	0.04	0.01	0.13
Darkblotched rockfish	0.00	0.01	0.00	0.00	0.00	0.01
Dover sole	0.00	0.00	0.00	0.24	0.00	0.24
Dusky rockfish	0.56	0.10	0.00	0.91	0.00	1.57
Eels or eel-like fish	0.00	0.00	0.00	0.00	0.00	0.00
General skate	0.00	0.00	0.00	3.15	0.00	3.15
Greenland flounder	0.00	0.01	0.00	0.02	0.00	0.03
Greenstripe rockfish	0.00	0.03	0.00	0.00	0.00	0.03
Lingcod greenling	31.83	41.12	123.35	0.85	0.36	197.51
Other rockfish	0.00	0.01	0.00	0.00	0.00	0.01
Pacific cod	5.61	26.21	0.00	275.28	2.03	309.14
Pacific ocean perch	0.00	0.07	0.00	0.01	0.00	0.07
Pacific tomcod	0.00	0.10	0.00	0.00	0.00	0.10
Quillback rockfish	11.96	4.60	0.03	2.20	0.31	19.10
Redbanded rockfish	0.29	5.68	0.00	14.10	1.17	21.24
Redstripe rockfish	0.00	0.01	0.00	0.08	0.00	0.09
Rosethorn rockfish	0.30	0.01	0.00	0.00	0.05	0.36
Rougheye rockfish	0.39	7.91	0.00	41.20	5.42	54.91
Sablefish	0.00	0.09	0.00	0.01	1602.27	1602.37
Sharpchin rockfish	0.01	0.00	0.00	0.00	0.00	0.01
Shortraker rockfish	0.01	7.90	0.00	53.36	14.62	75.89
Silvergray rockfish	0.64	1.12	0.00	3.69	0.00	5.46
Spiny dogfish shark	0.00	0.00	0.00	0.05	0.00	0.05
Thornyhead rockfish	0.04	8.20	0.00	71.33	58.72	138.29
Tiger rockfish	0.81	0.12	0.00	0.07	0.00	1.00
Unspecified slope rockfish	0.00	0.01	0.00	0.04	0.00	0.05
Whiting pollock	0.01	0.00	0.00	2.26	0.00	2.28
Widow rockfish	0.00	0.00	0.00	0.01	0.00	0.01
Yelloweye rockfish	218.46	122.29	1.95	6.42	4.30	353.42
Yellowtail rockfish	0.07	0.00	0.00	0.03	0.00	0.10
Grand Total	279.26	226.47	125.82	499.70	1689.29	2820.55

Halibut fishery reports bycatch only (no halibut catch numbers).

Table 5. Port samples taken from commercial landings July 1999 – June 2000.

Port	Common Name	No. Sample (otoliths)
Craig	Quillback Rockfish	103 (103)
	Black Rockfish	53 (53)
	Yelloweye Rockfish	512 (512)
Ketchikan	Pacific Cod	87 (87)
	Rougheye Rockfish	51 (51)
	Shortraker Rockfish	50 (50)
	Dusky Rockfish	25 (25)
	Quillback Rockfish	230 (230)
	Yelloweye Rockfish	181 (181)
Sitka	Pacific Cod	50 (50)
	Lingcod	611 (611)
	Quillback Rockfish	744 (744)
	Black Rockfish	818 (818)
	Yelloweye Rockfish	1071 (1071)

4. Publications

- O'Connell, V. M., D. Carlile, and C. Brylinsky. 2000. Summary of changes in the 2000 demersal shelf rockfish stock assessment. Regional Information Report IJ00-15. Alaska Department of Fish and Game, Commercial Fisheries Division, Douglas, Alaska.
- O'Connell, V. M., M. A. Cartwright, B. Richardson and D. Holum. 2000. Report to the Board of Fisheries, Region I Groundfish Fisheries Regional Information Report 1J99-49. . Alaska Department of Fish and Game, Douglas, Alaska. 39 pp.
- O'Connell, V., Mike Ruccio, Dan Urban, Charlie Trowbridge, Tom Brookover, Meg Cartwright, Cleo Brylinsky, Scott Myers, Kristen Munk, Brian Frenette, Bob Piorkowski, Bill Bechtol, and Rob Bentz. 2000. State of Alaska groundfish fisheries associated investigations in 1999: report to the Canada/US Groundfish Subcommittee of the Technical Subcommittee. Alaska Department of Fish and Game, Douglas, Alaska. Regional Information Report 1J00-23.
- Greene, H. G., V. M. O'Connell, W. Wakefield, C. Brylinsky, and J. Bizarro. 2000. A large rockfish habitat on Fairweather Ground, SE Alaska. IN Eleventh Western Groundfish Conference, Abstracts and Agenda. p 90.

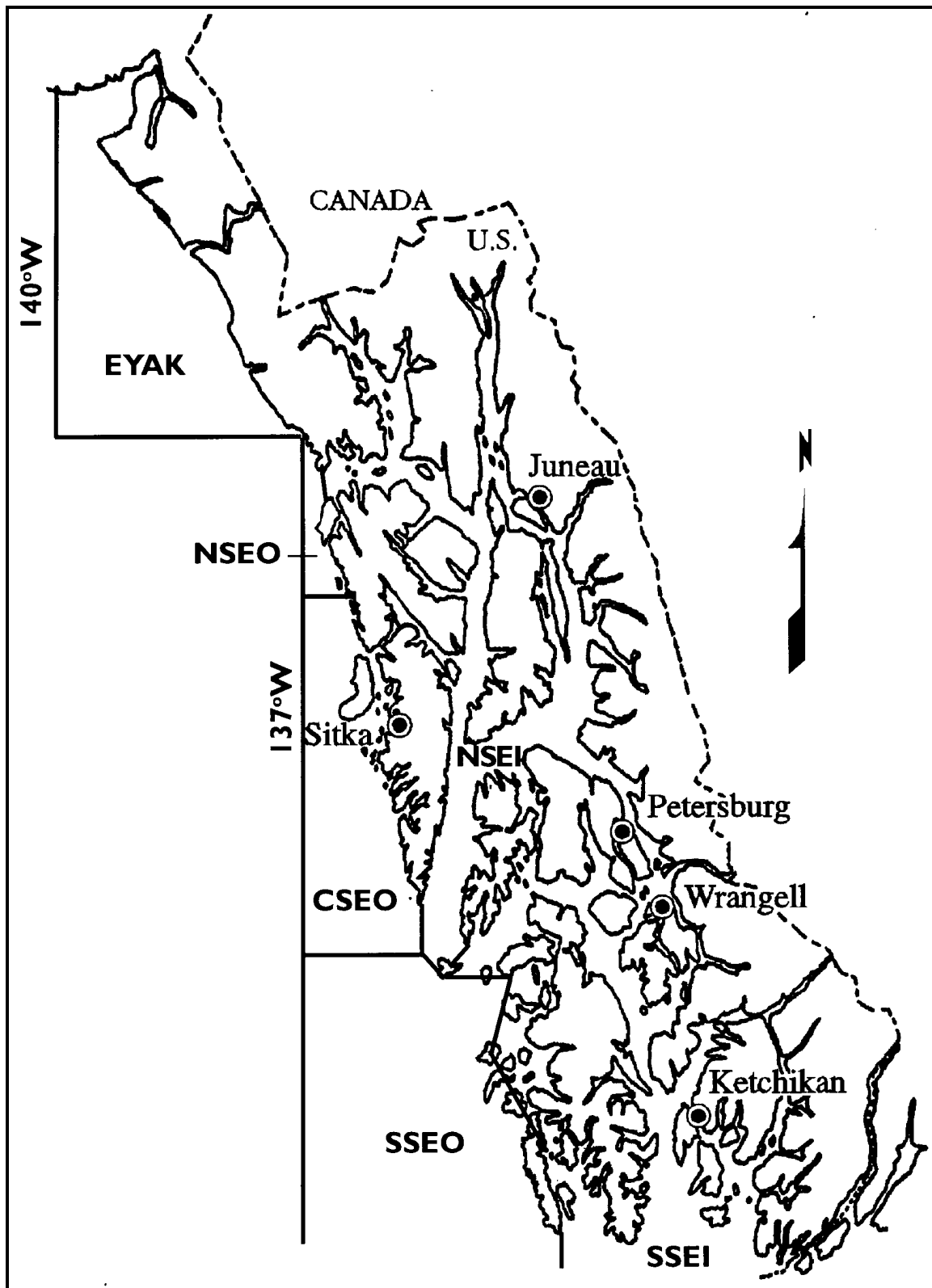


Figure 1. Groundfish Management Areas, Southeast Alaska.

Appendix I. Historic Catch Data, State Managed Fisheries Southeast Alaska

Table 1. Round weight (pounds) and ex-vessel value for state managed groundfish from groundfish fish-ticket database, Region I*, 1996-1999.

Species Group	Area Managed	1996 Round Wt. (lb)	1996 Value	1997 Round Wt. (lb)	1997 Value ^a	1998 Round Wt. (lb)	1998 Value	1999 Round Wt. (lb)	1999 Value
Lingcod	Region I*	755,771	\$379,283	612,950	\$331,606	560,427	\$308,235	485,904	\$315,857
Flatfish	NSEI/SSEI	1,185	\$273	5,614	\$1,067	14,631	\$2,634	12,968	\$2,464
Demersal Shelf Rockfish	Region I*	1,008,417	\$923,641	913,492	\$973,727	940,783	\$931,361	916,244	\$989,306
Black rockfish	Region I*							44,730	\$15,208
Pelagic Rockfish	NSEI/SSEI	8,365	\$3,011	15,105	\$3,927	6,740	\$2,022	4,240	\$1,484
Slope Rockfish	NSEI/SSEI	510,210	\$321,432	622,581	\$397,774	905,127	\$534,025	654,469	\$412,315
Pacific Cod	NSEI/SSEI	639,343	\$326,065	778,033	\$326,774	647,940	\$233,258	808,175	\$282,861
Sablefish	NSEI/SSEI	5,176,160	\$10,807,647	5,478,464	\$13,153,151	5,259,075	\$8,165,376	3,704,697	\$7,838,126
Total		8,099,451	\$12,761,352	8,426,239	\$15,188,026	8,334,723	\$10,176,911	6,631,427	\$9,857,621

* Region I, for reporting years 1996-1999, includes S. E. Alaska and East Yakutat.

^a Exvessel values were calculated from groundfish fish ticket data. Values are preliminary and do not reflect additional adjustments to processor prices made after the fishing season.

Table 2. Harvest totals of Lingcod 1990 to 1999 including all Southeast Alaska and East Yakutat District. Values are round weight in pounds.

Year	Jig-type Gear	Troll	Longline	Total
1990	314,595	110,992	346,866	772,453
1991	492,724	93,472	458,734	1,044,948
1992	452,047	66,864	452,092	971,003
1993	486,639	71,324	441,435	999,398
1994	416,335	94,628	370,431	881,392
1995	653,441	88,924	176,188	918,553
1996	524,454	53,518	231,317	809,289
1997	415,899	42,508	197,051	655,458
1998	372,024	39,365	188,403	599,792
1999	274,620	30,239	211,284	516,143

Table 3. Lingcod harvests (round weight in pounds x 1,000) by ADF&G groundfish management area and gear type, 1994-1999.

Area	Longline						Jig-type Gear					
	1994	1995	1996	1997	1998	1999	1994	1995	1996	1997	1998	1999
EYKT	124.1	39.5	39.6	65.9	75.2	90.7	87.5	312.7	255.1	218.2	144.8	127.6
NSEO	55.5	26.3	22.4	15.3	15.2	22.3	107.7	97.1	51.6	31.4	39.5	28.1
CSEO	123.7	93.8	146.7	88.1	69.1	63.3	201.7	199.3	85.4	93.5	88.2	65.8
NSEI	9.5	7.0	5.7	8.2	8.0	14.0	15.4	12.3	11.4	25.2	3.0	6.2
SSEO	45.8	8.1	15.7	15.9	16.7	15.6	3.3	31.8	95.9	44.7	87.9	42.9
SSEI	11.7	1.5	1.2	3.7	4.3	5.4	0.6	0.2	25.0	2.9	8.6	4.0
Total	370.3	176.2	231.3	197.1	188.5	211.3	416.2	653.4	524.4	415.9	372.0	274.6

Note: Incidental landings on salmon troll gear are not reported by groundfish management area.

Table 4. Lingcod harvest, effort, and value for Region 1, 1987 through 1999. Data provided does not include salmon troll bycatch as this data is not available on the groundfish fish ticket database.

Year	Directed Harvest Round Wt. (lb)	Directed Value	Directed Permits	Total Harvest Round Wt. (lb)	Total Value	Total Permits
1987	163,938	\$70,493	35	464,169	\$194,810	435
1988	258,368	\$118,849	59	595,54	\$250,076	562
1989	196,030	\$94,094	40	535,598	\$208,865	602
1990	314,595	\$157,298	46	678,517	\$278,192	635
1991	492,742	\$231,589	57	960,378	\$393,755	646
1992	452,047	\$194,380	61	907,957	\$317,785	680
1993	486,639	\$248,730	64	930,562	\$392,551	577
1994	415,454	\$216,110	72	786,766	\$345,951	603
1995	653,228	\$405,392	83	829,629	\$481,185	474
1996	524,136	\$262,068	101	755,771	\$379,283	462
1997 ^a	411,960	\$234,817	60	612,950	\$331,606	442
1998	369,391	\$210,553	45	560,427	\$308,235	417
1999	273,958	\$191,771	39	485,904	\$315,857	445

^a Directed lingcod fishery permit, "T" gear card, implemented January 1997. Prior to Jan. 1997 directed catches of lingcod were landed on an "M" gear card.

Table 5. Demersal Shelf Rockfish harvest, effort, and value from groundfish fish ticket data, 1987 through 1999 (directed fishery permit implemented in 1990; dinglebar gear card implemented in 1997).

Year	Directed Harvest Round Wt. (lb)	Directed Value	Directed Permits	Total Harvest Round Wt. (lb)	Total Value	Total Permits
1987 ^a				2,745,762	\$1,427,763	646
1988 ^a				1,935,895	\$1,065,043	819
1989 ^a				1,400,966	\$768,302	833
1990 ^a	653,847	\$382,457	144	1,122,095	\$600,190	789
1991 ^b	737,128	\$469,936	136	1,484,328	\$777,496	862
1992 ^b	1,087,554	\$626,336	149	1,591,020	\$768,960	919
1993 ^b	976,368	\$657,066	122	1,563,811	\$864,344	834
1994 ^b	982,745	\$680,863	133	1,619,214	\$858,680	847
1995 ^b	398,401	\$442,783	66	747,872	\$781,092	811
1996 ^c	782,776	\$787,585	125	1,008,417	\$923,641	736
1997 ^c	651,346	\$828,122	105	913,492	\$973,727	718
1998 ^c	621,421	\$751,919	88	940,783	\$931,361	709
1999 ^c	562,319	\$697,418	82	916,244	\$989,306	822

^a Demersal Shelf Rockfish assemblage includes: Bocaccio, Canary, China, Copper, Quillback, Redstripe, Rosethorn, Silvergray, Tiger, Yelloweye, and Unspecified DSR.

^b Demersal Shelf Rockfish assemblage includes: Canary, China, Copper, Quillback, Redbanded, Rosethorn, Tiger, Yelloweye, and Unspecified DSR.

^c Demersal Shelf Rockfish assemblage includes: Canary, China, Copper, Quillback, Rosethorn, Tiger, Yelloweye, and Unspecified DSR

Table 6. Pelagic Shelf Rockfish harvest, effort, and value, NSEI and SSEI, 1987 through 1999.

Year	Directed Harvest Round Wt. (lb) (Jig-type gear)	Directed Value	Directed Permits	Total Harvest Round Wt. (lb)	Total Value	Total Permits
1987	551	\$298	1	7,206	\$3,243	36
1988	11,144	\$3,009	7	17,989	\$5,397	44
1989	1,106	\$387	5	9,532	\$2,764	57
1990	1,021	\$276	6	5,220	\$1,357	67
1991	30	\$7	1	9,906	\$3,170	58
1992	9,870	\$2,764	10	26,315	\$7,105	83
1993	4,868	\$1,363	7	18,092	\$5,605	57
1994	3,846	\$1,115	7	16,920	\$4,907	53
1995	2,124	\$786	6	9,237	\$2,771	46
1996	4,359	\$1,221	13	8,365	\$3,011	57
1997	8,528	\$2,132	6	15,105	\$3,927	61
1998	1,838	\$588	3	6,740	\$2,022	58
1999 ^a	confidential	confidential	1	4,240	\$1,484	51

^a In 1999, Black and Blue rockfish were removed from the pelagic shelf rockfish group in the federal Fisheries Management Plan (FMP). The State of Alaska assumed management of these species in the Gulf of Alaska.

Table 7. Black rockfish harvest, value, and effort landed in Southeast District in 1999.

Year	Directed Harvest Round Weight (lb)	Directed Value	Directed Permits	Total Harvest Round Weight (lb)	Total Value	Total Permits
1999	35,804	\$12,531	10	44,730	\$15,208	114

Table 8. Other rockfish (slope and thornyheads) harvest, value, and effort landed in the NSEI and SSEI subdistricts, 1987- 1999.^a

Year	Directed Harvest Round Weight (lb)	Directed Value	Directed Permits	Total Harvest Round Weight (lb)	Total Value	Total Permits
1985	13,937	na	20	24,318	na	61
1986	30,669	\$13,187.67	22	56,321	\$21,965.19	50
1987	16,901	\$7,436.44	42	52,181	\$25,568.69	127
1988	15,108	\$6,798.60	43	77,685	\$35,735.10	146
1989	18,459	\$7,014.42	42	102,053	\$37,759.61	189
1990	11,347	\$3,744.51	28	91,045	\$39,149.35	192
1991	40,801	\$16,728.41	30	147,386	\$66,323.70	232
1992	35,914	\$11,851.62	46	153,449	\$56,776.13	249
1993	52,359	\$19,372.83	58	175,694	\$66,763.72	243
1994	73,198	\$46,114.74	48	331,568	\$192,309.44	247
1995	150,625	\$88,868.75	91	426,904	\$273,218.56	369
1996	271,250	\$160,037.50	136	510,210	\$321,432.30	452
1997	369,785	\$218,173.15	156	622,581	\$379,774.41	504
1998	531,426	\$292,284.30	161	905,127	\$534,024.93	597
1999	365,389	\$219,233.40	170	654,469	\$412,315.47	628

^a 1987-1990 slope complex includes: POP, darkblotched, sharpchin, thornyhead, greenstripe, northern, rougheye, shortraker, redbanded and unspecified slope.

1991-1995 slope complex includes POP, darkblotched, sharpchin, thornyhead, greenstripe, northern, rougheye, shortraker, silvergray, redstripe, bocaccio and unspecified slope.

1996-1999 slope complex includes: POP, darkblotched sharpchin, thornyhead, greenstripe, northern, rougheye, shortraker, silvergray, redstripe, bocaccio and unspecified slope.

Table 9. The sablefish harvest, value, and catch per unit effort in the NSEI Subdistrict, 1980-1999.^a

NSEI					
Year	Harvest Landed Round Weight (lb)	Ex-vessel Value	No. of Permits	No. of Days	CPUE (round lb/hook)
1980	1,373,205	\$363,350	50	76	0.44
1981	1,060,140	\$340,623	42	40	0.78
1982	1,240,429	\$554,844	38	15	0.52
1983	1,851,540	\$653,223	61	12	0.55
1984	1,782,290	\$718,620	67	5	1.11
1985	2,951,056	\$2,005,394	105	3	0.97
1986	3,874,269	\$2,866,959	138	2	1.43
1987	3,861,546	\$3,514,006	158	1	1.40
1988	4,206,509	\$4,543,029	149	1	1.33
1989	3,767,518	\$2,900,988	151	1	1.16
1990	3,281,393	\$3,543,904	121	1	1.25
1991	3,955,189	\$6,882,028	127	1	1.25
1992	4,267,781	\$4,907,948	115	1	1.38
1993	5,795,974	\$5,622,094	120	1	1.62
1994	4,713,552	\$9,144,290	121	30	1.00
1995	4,542,348	\$7,721,991	121	30	0.90
1996	4,673,701	\$9,908,246	121	61	0.79
1997	4,753,394	\$11,550,747	122	76	0.68
1998	4,688,008	\$7,360,172	116	76	0.53
1999	3,043,273	\$6,634,335	112	76	0.52

^a Harvest and value NSEI 1980-1984 are based on hand-tallied data. Harvest and value after 1984 based on fish ticket records.

The data includes only data from the directed fishery and does not include fish taken during the test fishery, illegally as bycatch in other fisheries, or reported used as bait.

Table 10. The sablefish harvest, value, and catch per unit effort in the SSEI subdistrict, 1980-1999.^a

Year	Longline Fishery					Pot Fishery			
	Harvest Landed Round Weight (lb)	Ex-vessel Value	No. of Permits	No. of Days	CPUE (round lb/hk)	Harvest Landed Round Weight (lb)	Ex-vessel Value	No. of Permits	No. of Days
1981	120,635	\$38,760		154					
1982	460,303	\$205,894		215					
1983	112,021	\$39,521		278					
1984	376,554	\$151,827	18	48					
1985	511,617	\$322,319	43	7	0.84				
1986	554,121	\$260,436.87	22	7	0.84	Confidential	Confidential	2	7
1987	435,501	\$291,785.67	22	5	0.68	Confidential	Confidential	1	5
1988	712,787	\$719,914.87	26	5	0.59	Confidential	Confidential	1	5
1989	952,231	\$714,173.25	31	5	0.52	Confidential	Confidential	1	5
1990	758,663	\$553,823.99	29	3	0.59			0	3
1991	679,623	\$625,253.16	30	2.4	0.52	Confidential	Confidential	1	2.4
1992	936,811	\$936,811.00	29	2.4	0.62	Confidential	Confidential	1	2.4
1993	824,011	\$815,770.89	27	2.4	0.52			0	2.4
1994	866,788	\$1,066,149.24	30	2.4	0.48			0	2.4
1995	678,762	\$1,323,585.90	28	2.4	0.52			0	2.4
1996	502,459	\$899,401.61	28	2	0.41			0	2
1997	608,789	\$1,345,423.69	29	45	0.46	116,281	\$256,981.01	5	76
1998	489,221	\$689,801.61	27	45	0.44	81,846	\$113,765.94	4	76
1999	565,190	\$1,006,038.20	25	45	0.50	96,234	\$193,430.34	4	76

^a Harvest and value SSEI 1980-1985 are based on hand-tallied data. After 1985, harvest and value are based on fish ticket records. Prior to 1985, pot and longline gears are not separated and both gears fished in this area.

Table 11. Pacific cod harvest, value, and effort, NSEI and SSEI subdistricts, 1987-1999.

Year	Directed Harvest Round Weight (lb)	Directed Value	Directed Permits	Total Harvest Round Weight (lb)	Total Value	Total Permits
1985	132,915		42	142,405	\$35,601	61
1986	318,312	\$79,578	99	338,145	\$84,536	123
1987	724,781	\$231,930	179	781,487	\$250,076	259
1988	474,359	\$166,026	156	522,964	\$177,808	278
1989	311,255	\$124,502	102	380,070	\$140,626	318
1990	218,120	\$80,704	74	309,919	\$102,273	338
1991	504,036	\$191,534	88	589,376	\$212,175	322
1992	780,265	\$335,514	141	886,243	\$354,497	377
1993	889,676	\$382,561	133	962,434	\$394,598	319
1994	346,663	\$138,665	77	402,475	\$148,916	220
1995	285,363	\$105,584	92	339,312	\$115,366	237
1996	592,090	\$313,808	129	639,343	\$326,065	281
1997	722,814	\$310,810	138	778,413	\$326,933	298
1998	585,573	\$216,662	106	647,940	\$233,258	301
1999	709,378	\$255,376	131	808,175	\$282,861	356

Table 12. Flatfish harvest, value, and effort, NSEI and SSEI, 1987-88 through 1998-1999.

Year Oct. 1 –Sept. 31	Directed Trawl Harvest Round Weight (lb)	Directed Value	Directed Permits	Total Harvest Round Weight (lb)	Total Value	Total Permits
1987-1988	861,349	\$215,337	7	863,679	\$215,920	15
1988-1989	532,918	\$138,559	4	533,333	\$138,667	11
1989-1990	278,671	\$66,881	2	283,006	\$67,921	6
1990-1991	340,633	\$78,346	7	341,061	\$78,444	11
1991-1992	58,854	\$8,240	5	59,118	\$8,277	6
1992-1993	Confidential	Confidential	2	23,259	\$4,652	8
1993-1994	Confidential	Confidential	1	11,375	\$2,389	3
1994-1995	Confidential	Confidential	2	22,016	\$4,403	14
1995-1996	0	0	0	1,185	\$273	10
1996-1997	0	0	0	5,614	\$1,067	14
1997-1998	Confidential	Confidential	1	14,631	\$2,634	17
1998-1999	Confidential	Confidential	1	12,968	\$2,464	12

Appendix II. Related News Releases

COMMERCIAL FISHERIES NEWS RELEASE

ALASKA DEPARTMENT OF FISH & GAME

STATE OF ALASKA
Department of Fish and Game
Frank Rue, Commissioner

Sitka Area Office
304 Lake Street, Room 103
Sitka, Alaska 99835

Doug Mecum
Director

Contact: Meg Cartwright

Phone: (907) 747-6688 · Fax: (907) 747-6239

FOR IMMEDIATE RELEASE

June 15, 2000

NEW LINGCOD COMMERCIAL FISHING REGULATIONS

Sitka. . . The Alaska Department of Fish and Game announced today the new commercial fishing regulations pertaining to the Lingcod Management Plan approved by the Board of Fisheries in February, 2000. The new regulations will be effective June 15, 2000. Regulation changes are detailed below:

1. An additional Subdistrict and two Sectors were added to the Southeast District (see map):
 - A. The western boundary of the Eastern Gulf of Alaska (Southeast District) was extended from 140° W. longitude to 144° W. longitude. The new Subdistrict, Icy Bay, comprises all waters between 140° and 144° W. long. including Yakutat Bay three miles seaward of a line from Ocean Cape at 59°30' W. lat..
 - B. The two sectors redefine the Southern Southeast area as follows:
 - (1) Southern Southeast Outer Coast (SSEOC)-all waters of the Southern Southeast Outside Section and all waters of the Southern Southeast Inside Subdistrict that are south of 56° N. lat., and west of Prince of Wales Island, or, if south of 54° 43' N. lat., that are west of 132° W. long..
 - (2) Southern Southeast Internal Waters (SSEIW) Sector- all waters of the Southern Southeast Inside Subdistrict not included in the Southern Southeast Outer Coast Sector.
2. The lingcod guideline harvest range (round weight (lb)) and the percent allocated to each fishery by each management area are as follows:

	Icy Bay	East Yakutat	NSEO	CSEO	SSEOC	SSEIW	NSEI
GHL	0-100,000	0-200,000	0-40,000	0-240,000	0-167,000	0-52,000	0-32,000
Directed fishery	0%	43%	43%	40%	37%	0%	0%
Sport fishery	1/3	2%	22%	30%	44%	92%	50%
Longline bycatch	1/3	47%	27%	23%	17%	4%	30%
Salmon troll bycatch	1/3	8%	8%	7%	2%	4%	20%

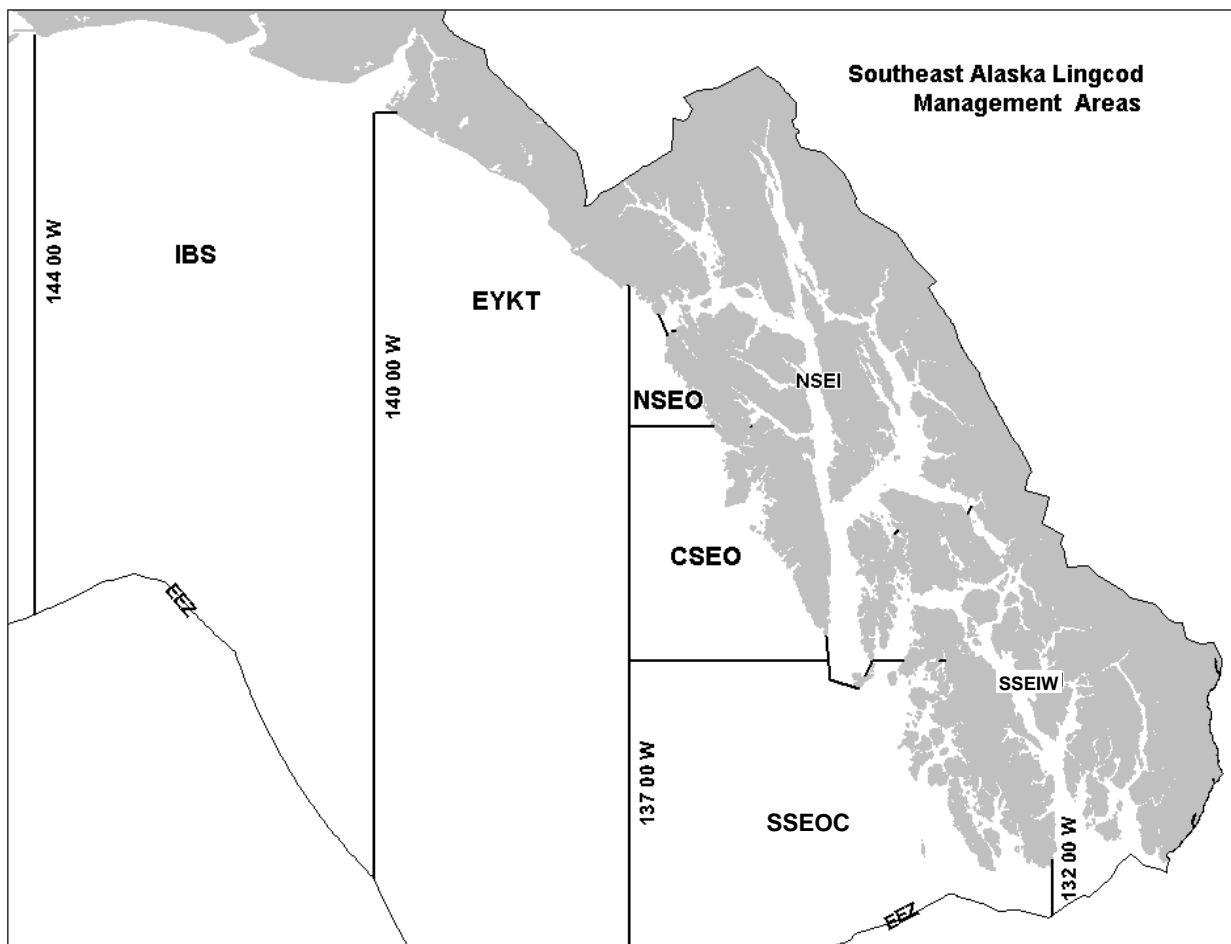
3. The 2000 lingcod guideline harvest levels (round weight (lb)) by fishery and management are:

	Icy Bay	East Yakutat	NSEO	CSEO	SSEOC	SSEIW	NSEI
GHL	100,000	200,000	40,000	240,000	167,000	52,000	32,000
Directed fishery	0	86,000	17,200	96,000	61,790	0	0
Sport fishery	33,330	4,000	8,800	72,000	73,480	47,840	16,000
Longline bycatch	33,330	94,000	10,800	55,200	28,390	2,080	9,600
Salmon troll bycatch	33,330	16,000	3,200	16,800	3,340	2,080	6,400

4. The vessel owner or the owner's agent must register the vessel with the department before directed fishing for lingcod. Registration forms are available at area offices.
5. Lingcod may be taken in a directed lingcod fishery only from May 16 through November 30.
6. Lingcod may be taken in a directed lingcod fishery only by mechanical jigging machines, dinglebar troll gear, and hand troll gear. Lingcod may only be taken as bycatch with hook and line gear (no pots, trawls or other net gears).
7. In a directed lingcod fishery, a trip limit may be imposed on vessels by emergency order to promote an orderly fishery and to conserve the stocks.
8. Lingcod may be taken as bycatch in the commercial salmon troll fishery only from May 16 through November 30. Trollers are allowed a 10% bycatch of lingcod against the round weight (lb) of the salmon on board. When the troll gear quota is reached for each management area, trollers will be required to release lingcod back into the water. Trollers will be notified by a news release when the quota has been taken.
9. A vessel fishing for halibut with longline gear may not land or have on board lingcod in excess of 5%, by round weight (lb), of all halibut on board the vessel. If halibut and sablefish are fished at the same time, the vessel may not land or have on board lingcod in excess of 5% of all halibut on board.

Please refer to the 1999-2000 groundfish regulation book for other lingcod regulations.

Changes in regulations pertaining to sharks, full retention of all rockfish in inside waters, and other miscellaneous regulations will be effective July 5, 2000. Other regulations including full retention of demersal shelf rockfish (DSR) on the outside waters, displaying a 'M' or a 'D' when mechanical jig or dinglebar fishing, and several gear restricting regulations will be effective mid-July. The Department will issue a news release at a later time outlining the details of these regulatory changes.



News releases can be found on our web site at http://www.cf.adfg.state.ak.us/region1/news/news_rel.htm.

Phone numbers for the Southeast Area Offices are: Juneau 465-4250, Sitka 747-6688, Ketchikan 225-5195, Petersburg 772-3801, Wrangell 874-3822, Haines 766-2830, and Yakutat 784-3255.

COMMERCIAL FISHERIES

NEWS RELEASE

ALASKA DEPARTMENT OF FISH & GAME

STATE OF ALASKA
Department of Fish and Game
Frank Rue, Commissioner

Sitka Area Office
304 Lake Street, Room 103
Sitka, Alaska 99835

Doug Mecum
Director

Contact: Meg Cartwright

Phone: (907) 747-6688 · Fax: (907) 747-6239

FOR IMMEDIATE RELEASE

June 21, 2000

NEW ROCKFISH AND MISCELLANEOUS GROUND FISH REGULATIONS

Sitka. . . The Alaska Department of Fish and Game announced today the new commercial fishing regulations pertaining to rockfish, sablefish, flatfish and other miscellaneous regulations adopted by the Board of Fisheries. The new regulations will be effective July 5, 2000. Regulation changes include:

Rockfish:

1. Full retention of rockfish in the internal waters of the Southeast District (Northern and Southern Southeast Inside Subdistricts) will be required. A permit holder must retain, weigh and report all rockfish taken. All rockfish in excess of the allowable bycatch limits shall be reported as bycatch overage on the fish ticket and proceeds from the sale of excess rockfish will go the state.
2. Pelagic shelf rockfish (PSR) may only be taken in a directed fishery by dinglebar troll gear, hand troll gear, and mechanical jigging machines.

Spiny dogfish sharks

1. Power troll, hand troll and longline vessels may retain spiny dogfish as bycatch up to 35%, by round weight, of the target species on board.
2. In East Yakutat and Icy Bay Subdistricts, salmon set gill net permit holders may retain all spiny dogfish taken as bycatch during salmon set gillnet operations and the number of pounds must be reported on the salmon fish ticket.
3. Any species of shark retained as bycatch must be sold or utilized. In this subsection, "utilize" means use of the flesh of the shark for human consumption, for reduction to meal for production of food for animals or fish, for bait, or scientific and educational purposes (no finning).

Miscellaneous:

1. The season for the SSEI sablefish longline fishery was extended and will be open from June 1 to August 15 each year.
2. Legal gear in the directed flatfish (flounder and sole) trawl fishery is limited to beam trawl gear.
3. A person may not possess groundfish in a manner that indicates an intent to keep the groundfish alive unless authorized by the terms of a scientific, propagative, or educational permit (no live fish groundfish fisheries).

Lingcod regulations were summarized in a previous news release dated June 13, 2000. Other regulations including full retention of demersal shelf rockfish (DSR) in outside waters, displaying a "M" or a "D" when mechanical jig or dinglebar fishing, and several gear restricting regulations will be effective July 14, 2000. The Department will issue a news release outlining the details of these regulations.

*News releases can be found on our web site at http://www.cf.adfg.state.ak.us/region1/news/news_rel.htm.
Phone numbers for the Southeast Area Offices are: Juneau 465-4250, Sitka 747-6688, Ketchikan 225-5195, Petersburg 772-3801, Wrangell 874-3822, Haines 766-2830, and Yakutat 784-3255.*

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If you believe you have been discriminated against in any program, activity, or facility, or if you desire further information please write to ADF&G, P.O. Box 25526, Juneau, AK 99802-5526; U.S. Fish and Wildlife Service, 4040 N. Fairfield Drive, Suite 300, Arlington, VA 22203; or O.E.O., U.S. Department of the Interior, Washington DC 20240.

For information on alternative formats for this and other department publications, please contact the department ADA Coordinator at (voice) 907-465-4120, (TDD) 907-465-3646, or (FAX) 907-465-2440.